marathon®

General Purpose Motors

Model No: 182TTFW6001
Catalog No: E2009

General Purpose Motor, 3 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 182TC Frame, TEFC

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Product Information Packet: Model No: 182TTFW6001, Catalog No: E2009 General Purpose Motor, 3 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 182TC Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**3 & 3 Hp**
Output KW	**2.2 & 2.2 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3510 & 2880 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**182TC**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**86.5 & 85.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**7.8/3.9 & 9.2/4.6 A**
Power Factor	**83**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**K**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

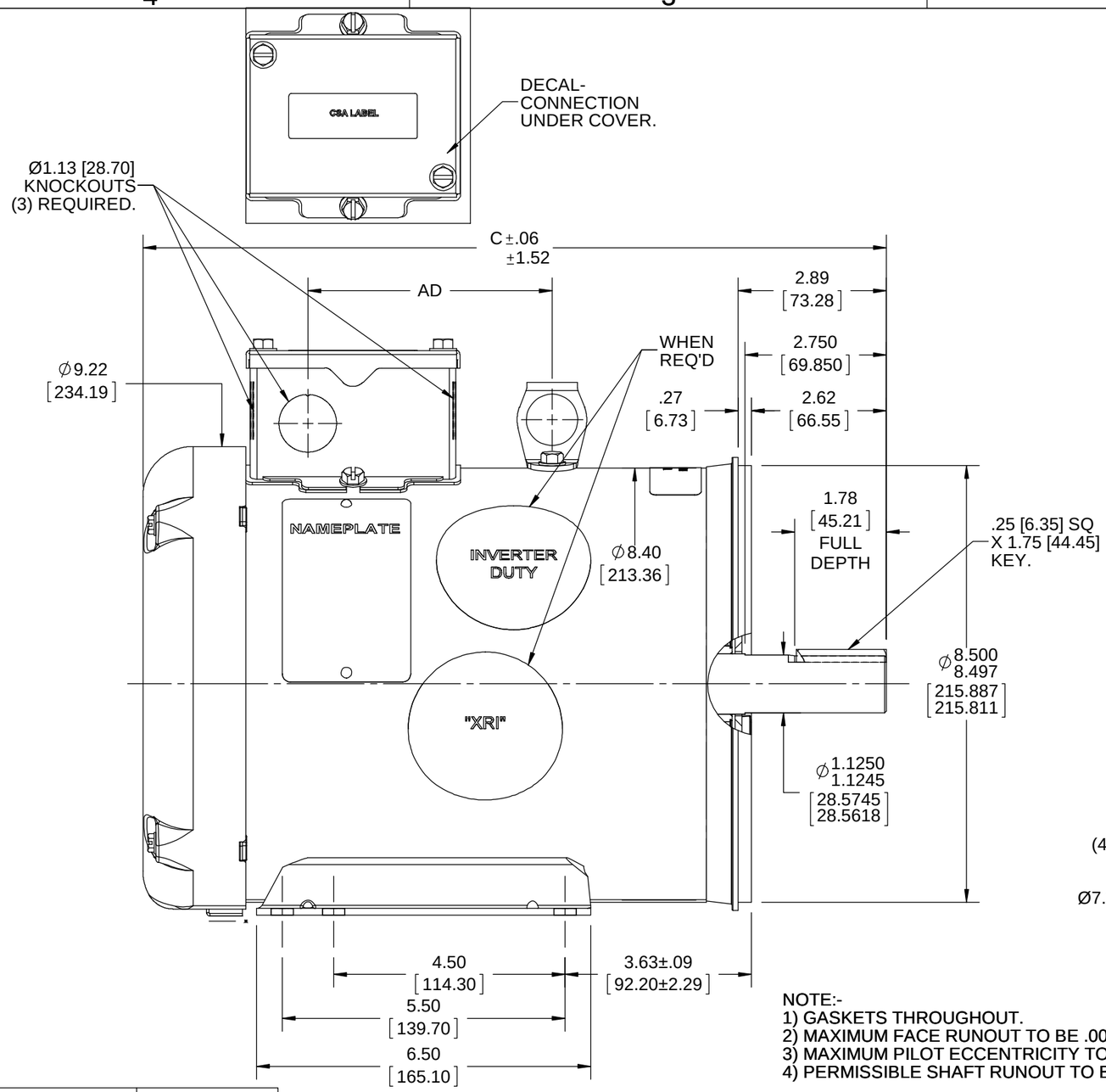
Technical Specifications

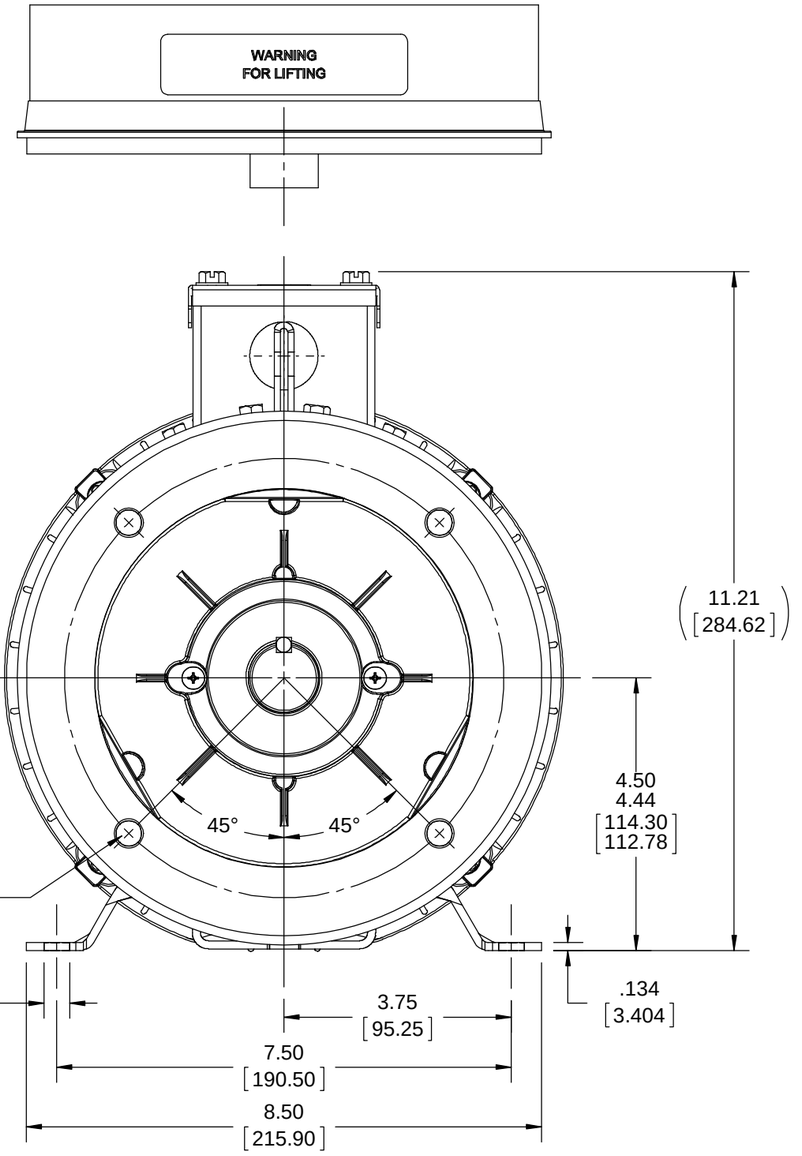
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**3.56 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**13.97 in**
Frame Length	**8.5 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.88 in**	Assembly/Box Mounting	**F3**

Drawings

Connection Drawing	**005010.01ME**	Outline Drawing	**035538-850**

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NOTE:-
1) GASKETS THROUGHOUT.
2) MAXIMUM FACE RUNOUT TO BE .004 [.102] T.I.R
3) MAXIMUM PILOT ECCENTRICITY TO BE .004 [.102] T.I.R
4) PERMISSIBLE SHAFT RUNOUT TO BE .002 [.050] T.I.R.

DASH NO	"C"	"AD"
850	13.96 [354.58]	4.25 [107.95]
900	14.46 [367.28]	4.75 [120.65]
950	14.96 [379.98]	5.25 [133.35]
1000	15.46 [392.68]	5.75 [146.05]
1050	15.96 [405.38]	6.25 [158.75]
1100	16.46 [418.08]	6.75 [171.45]
1150	16.96 [430.78]	7.25 [184.15]

DRAWING REVISION H	REVISION BY A SUPPANNAVAR	DATE 10/03/2018
ECO ECO-0157674	APPROVED BY S TAILOR	DATE 11/29/2018
ECO DESCRIPTION: OUTLINE CONVERSION PROJECT		

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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45 °
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 125 INCH / 3.2 mm
mm SHOWN IN [BRACKETS]

DRAWN BY VS	Regal Beloit America, Inc.		
DATE 08/21/07			
APPROVED BY	DESCRIPTION: OUTLINE 180T FRAME TEFC-RIGID "C"		
DATE			
REFERENCE 035538	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 035538	SHEET 1 OF 1

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Data Sheet

Date: 15-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

182TTFW6001

Submittal

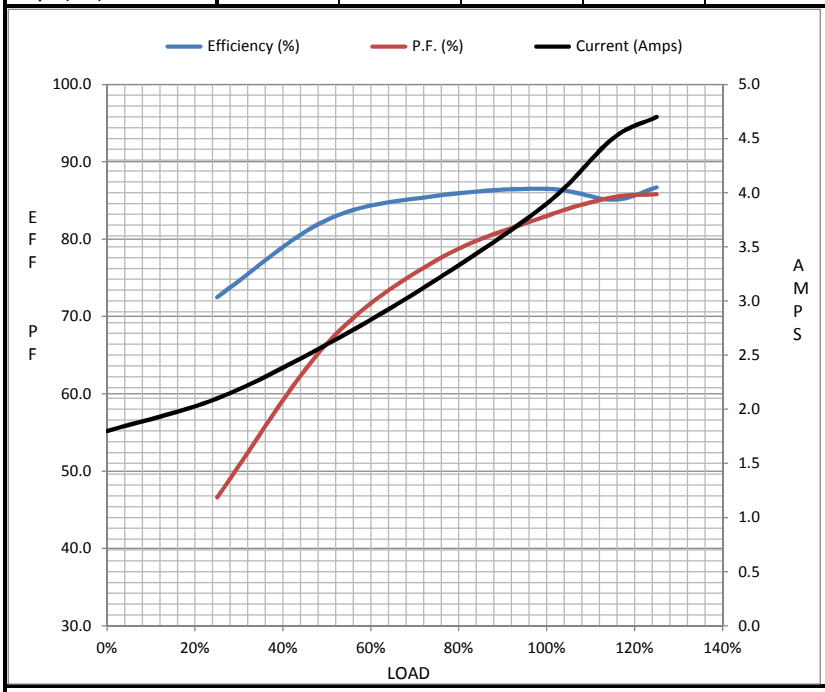
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.80	2.10	2.60	3.2	3.9	4.5	4.7	33.0	
Torque (ft-lb)	0.00	1.10	2.20	3.3	4.5	5.2	5.6	11.0	
RPM	3600	3579	3559	3539	3510	3,500	3492	0	
Efficiency (%)		72.5	82.5	85.6	86.5	85.1	86.7		
P.F. (%)	13.5	46.6	66.5	77.3	83.0	85.4	85.8	49.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	186	2800	3510	3600
Current (Amps)	33.0	32.5	21.7	3.9	1.80
Torque (ft-lb)	11.0	11.0	18.2	4.5	0.00



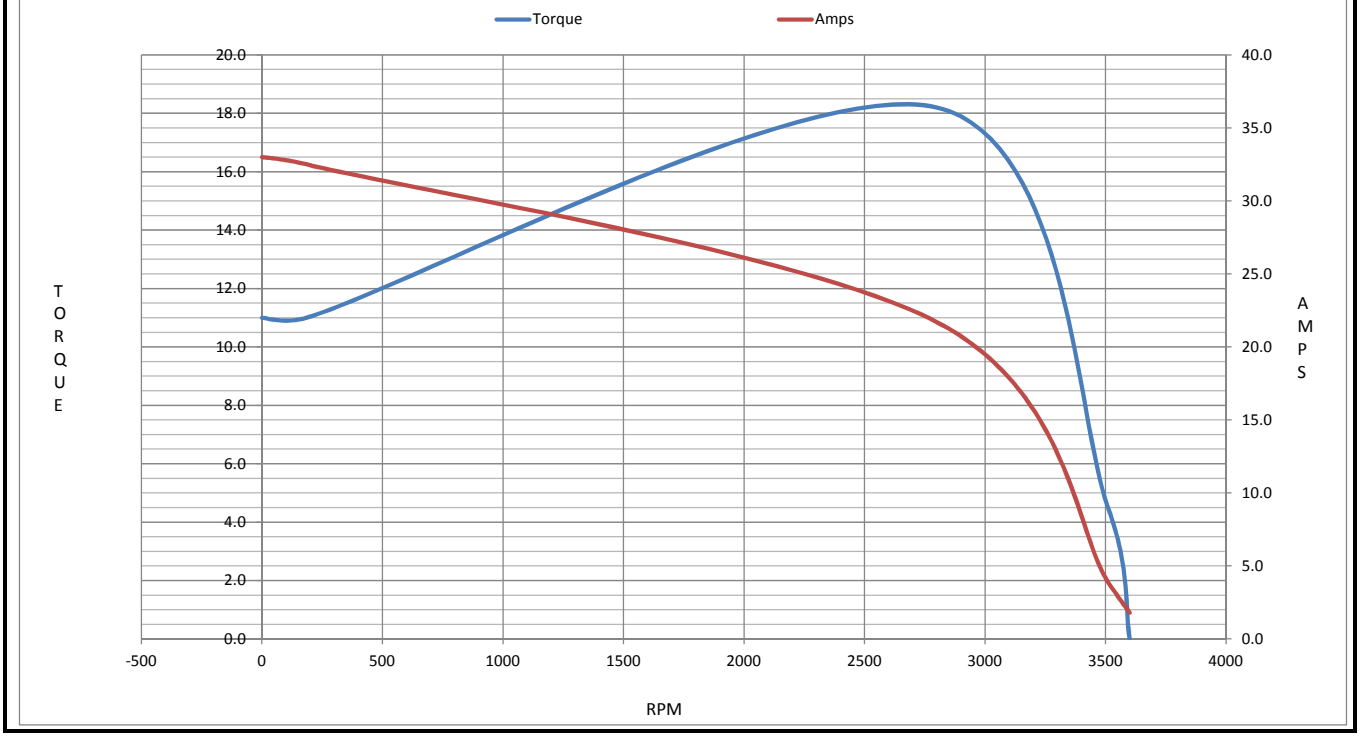
Information Block

HP	3.0
Sync. RPM	3600
Frame	180
Enclosure	TEFC
Construction	TFW
Voltage	230/460#190/38(V
Frequency	60 Hz
Design	B
LR Code letter	K
Service Factor	1.15
Temp Rise @ FL	45 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.23 Lb-Ft²
Ref Wdg	T82102 R1
Sound Pressure @ 1M	75 dBA
VFD Rating	NONE
Outline Dwg	035538-850
Conn. Diag	005010.01ME
Additional Specifications:	
0	
365THFS8036	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.7780	2.0150	7.3220	2.4500	167.4420

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	182TTFW6001 AA	**WINDING#:**	T82102 R1 3
CONN. DIAGRAM:	005010.01ME	**ASSEMBLY:**	F3
OUTLINE:	035538-850		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&3	2.24&2.24	3600	3510&2880	182TC	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	7.8/3.9&9.2/4.6	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40	3300

FULL LOAD EFF: 86.5&85.5	3/4 LOAD EFF: 85.6	1/2 LOAD EFF: 82.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83&86	3/4 LOAD PF: 77.3	1/2 LOAD PF: 66.5	83.8	SQ CAGE IND RUN	3.6 / 1.8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	66 / 33	11 LB-FT 244	18.2 LB-FT 404	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	0.23 LB-FT^2	11 LB-FT^2	15 SEC.	2	60 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6206	BALL 6205	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

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